

Express Mail Label No.: EK141045154US
Date of Deposit: July 9, 2001

PATENT APPLICATION
Attorney Docket No. 15966-609 (Cura 109)

#6

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Burgess *et al*
SERIAL NUMBER: 09/730,617 EXAMINER: Not Yet Assigned
FILING DATE: December 5, 2000 ART UNIT: 1645
FOR: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING THE SAME

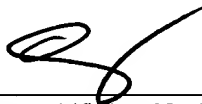
Box MISSING PARTS

Assistant Commissioner for Patents
Washington, D.C. 20231

**STATEMENT IN SUPPORT OF COMPUTER READABLE
FORM SUBMISSION UNDER 37 C.F.R. § 1.821(f)**

I hereby state that the content of the paper and computer readable forms of the Sequence Listing, submitted in the above-identified application in accordance with 37 C.F.R. § 1.821(c) and 1.821(e), respectively, are the same. No new matter is added.

Respectfully submitted,



Date: July 9, 2001

Ivor R. Elrifi, Reg. No. 39,529
Cynthia A. Kozakiewicz, Reg. No. 42,764
Attorneys for Applicant
c/o Mintz, Levin
One Financial Center
Boston, MA 02111
Telephone (617) 542 6000
Fax: (617) 542 2241



#6

SEQUENCE LISTING

<110> ~~Bio-Gen~~, Catherine E
Prayaga, Sudhirdas K
Shinkets, Richard A
Rastelli, Luca
Zerhusen, Bryan D
Mezes, Peter S

<120> Novel Proteins and Nucleic Acids Encoding the Same

<130> 15966-609

<140> 09/730,617

<141> 2000-12-05

<150> 60/169,056

<151> 1999-12-06

<150> 60/169,886

<151> 1999-12-09

<150> 60/169,866

<151> 1999-12-09

<150> 60/170,252

<151> 1999-12-10

<150> 60/175,740

<151> 2000-01-12

<160> 100

<170> PatentIn Ver. 2.1

<210> 1

<211> 1047

<212> DNA

<213> Homo sapiens

<400> 1

atgcagtggg cctgtctggc ctgtaccctc ctcagggtcc tcccacatgt cctgtctctc 60
ctgagagacc ctgtgacctgt gcccacaggg accaagctct tccactcctg tatcacctca 120
acgaacctat gcgcctcctt cctggagggtt gctgttgaag ctgcaggcat caccacctgg 180
actgtagggt ctgagcacc gccctgtcca tatccatccc tgcctgctc tccgttcacc 240
gactccttca acagaccatc ccctgctcct ctcaacaggc cccgctctgc tggggaacca 300
cggacagagg ccttcccatc cccaggcctg aaggccagag taggtgggac catcctcgcc 360
gaagccggcc tcaattctca aggccatgcc gtggagccag tgccatctgg accctctggg 420

05730617-070901

tcaagcaaag ggtgtgtgct aatcaaaggc aggcctcga ggatgccaaa ggcccgcgaa 480
 tgcccagtgg accgtgaaaa ccttctgctg acaaaccctg cagtgccttc tctgctccag 540
 ctgctctcca gctctccatg catcaagggtg gaaacagagc aggagcgcag taatgcggaa 600
 ttgacttg c aaagtcgggc cgctcgggat tacaattcaa ggctgctgct gaaactcggg 660
 cagatcccag ctgcaaaggg cagttccttc ctcgagctgc agaactgtgc tggaggggtt 720
 ggctcagccc gaggtcccag gaaccactgc aaggtggggg cgggccctca gagcccttcc 780
 ccagagctgg gggctggtag cccccctttg gctttggaga aggtcagtac ccaaccatt 840
 cccagggccc gactgcggaa ggggtggtgac tggccccctg tgtctcctgg tgaccagtgt 900
 ccactgtgca ctctcccagg ccagccgaac ctggcacaca ctgggtgttc cctaaatagc 960
 catggagggt attgtggcat ggagagctgt cgattccaga aacctcctgg acatagggct 1020
 gggagctcat ctgcagaagc tgcctga 1047

<210> 2

<211> 348

<212> PRT

<213> Homo sapiens

<400> 2

Met Gln Trp Ser Cys Leu Ala Cys Thr Leu Leu Arg Val Leu Pro His
 1 5 10 15

Val Leu Ser Leu Leu Arg Asp Pro Val Pro Val Pro Thr Gly Thr Lys
 20 25 30

Leu Phe His Ser Cys Ile Thr Ser Thr Asn Pro Cys Ala Ser Phe Leu
 35 40 45

Glu Val Ala Val Glu Ala Ala Gly Ile Thr Pro Trp Thr Val Gly Ser
 50 55 60

Glu His Pro Pro Cys Pro Tyr Pro Ser Leu His Ala Ser Pro Phe Thr
 65 70 75 80

Asp Ser Phe Asn Arg Pro Ser Pro Ala Pro Leu Asn Arg Pro Arg Ser
 85 90 95

Ala Gly Glu Pro Arg Thr Glu Ala Phe Pro Ser Pro Gly Leu Lys Ala
 100 105 110

Arg Val Gly Gly Thr Ile Leu Ala Glu Ala Gly Leu Asn Ser Gln Gly
 115 120 125

His Ala Val Glu Pro Val Pro Ser Gly Pro Ser Gly Ser Ser Lys Gly
 130 135 140

Cys Val Leu Ile Lys Gly Arg Pro Ser Arg Met Pro Lys Ala Arg Glu
 145 150 155 160

09730617.070904

00730617.070001

Cys Pro Val Asp Arg Glu Asn Leu Leu Leu Thr Asn Pro Ala Val Pro
165 170 175

Ser Leu Leu Gln Leu Leu Ser Ser Ser Pro Cys Ile Lys Val Glu Thr
180 185 190

Glu Gln Glu Arg Ser Asn Ala Glu Phe Asp Leu Gln Ser Arg Ala Ala
195 200 205

Arg Asp Tyr Asn Ser Arg Leu Leu Leu Lys Leu Gly Gln Ile Pro Ala
210 215 220

Ala Lys Gly Ser Ser Phe Leu Glu Leu Gln Asn Val Ser Gly Gly Val
225 230 235 240

Gly Ser Ala Arg Gly Pro Arg Asn His Cys Lys Val Gly Ala Gly Pro
245 250 255

Gln Ser Pro Phe Pro Glu Leu Gly Ala Gly Ser Pro Pro Leu Ala Leu
260 265 270

Glu Lys Val Ser Thr Gln Pro Ile Pro Gln Ala Arg Leu Arg Lys Gly
275 280 285

Val Asp Trp Pro Pro Val Ser Pro Gly Asp Gln Cys Pro Leu Cys Thr
290 295 300

Leu Pro Gly Gln Pro Asn Leu Ala His Thr Gly Cys Ser Leu Asn Ser
305 310 315 320

His Gly Gly Tyr Cys Gly Met Glu Ser Cys Arg Phe Gln Lys Pro Pro
325 330 335

Gly His Arg Ala Gly Ser Ser Ser Ala Glu Ala Ala
340 345

<210> 3

<211> 646

<212> DNA

<213> Homo sapiens

<400> 3

agcgcgcccg aacgaagccg cggcccgggc acagcatggc ccgcggcgagg agggcgctcg 60
gatgttcggc agcctcctgc acttcgccct gctcgtgcc ggcgtcgtcc cgctcagctg 120
ggatctcccg gagccccgca gccgagccag caagatccga gtgcactcgc gaggcaagct 180
ctgggccatc ggtcacttca tgggcaagaa gagtctggag ccttcacagcc catccccatt 240

0573061-02501

```

<400> 4
Met Phe Gly Ser Leu Leu His Phe Ala Leu Leu Ala Ala Gly Val Val
  1                      5                      10                      15

Pro Leu Ser Trp Asp Leu Pro Glu Pro Arg Ser Arg Ala Ser Lys Ile
      20                      25                      30

Arg Val His Ser Arg Gly Lys Leu Trp Ala Ile Gly His Phe Met Gly
      35                      40                      45

Lys Lys Ser Ser Leu Glu Pro Ser Ser Pro Ser Pro Leu Gly Thr Ala Pro
  50                      55                      60

His Thr Ser Leu Arg Asp Gln Arg Leu Gln Leu Ser His Asp Leu Leu
  65                      70                      75                      80

Gly Ile Leu Leu Leu Lys Lys Ala Leu Gly Val Ser Leu Ser Arg Pro
      85                      90                      95

Ala Pro Gln Ile Gln Tyr Arg Arg Leu Leu Val Gln Ile Leu Gln Lys
      100                      105                      110

```

```
<400> 5
atgaagctgg cattctctt ccttgcccc atggccctcc tccttctggc tggctatggc 60
tgtgtctctg qtgcctccag tgggaacctg cgcacctttg tgggctgtgc cgtgagggag 120
```

ttactttcc tggccaagaa gccaggctgc aggggccttc ggatcaccac ggatgcctgc 180
 tggggtcgct gtgagacctg ggagaaaccc attctggaac cccctatat tgaagcccat 240
 catcgagtct gtacctacaa cgagacaaa caggtgactg tcaagctgcc caactgtgcc 300
 ccgggagtcg accccttcta cacctatccc gtggccatcc gctgtgactg cggagcctgc 360
 tccactgcc aacggagct gaggttgatg ccagggaag ctgctgtggc actgggcttc 420
 tgggtgcagc gtaggagaca gggatctagg acaacaggga ccagggtggc acatgcagct 480
 gtaagagaca aggtgagtct cctgaaggca gtagatggtt ggaatgggct gcttggggac 540
 ccagcgagct ccaggggcct ttctgcttct tctgtaccc ctgtatttcc cttggcttcc 600
 caaattgact cagcttctgg taaagttgga aacttttcca gcaaacagac cttcatcttc 660
 tccagtgcag agattacatt aggaggaaca tga 693

<210> 6

<211> 230

<212> PRT

<213> Homo sapiens

<400> 6

Met Lys Leu Ala Phe Leu Phe Leu Gly Pro Met Ala Leu Leu Leu Leu
 1 5 10 15

Ala Gly Tyr Gly Cys Val Leu Gly Ala Ser Ser Gly Asn Leu Arg Thr
 20 25 30

Phe Val Gly Cys Ala Val Arg Glu Phe Thr Phe Leu Ala Lys Lys Pro
 35 40 45

Gly Cys Arg Gly Leu Arg Ile Thr Thr Asp Ala Cys Trp Gly Arg Cys
 50 55 60

Glu Thr Trp Glu Lys Pro Ile Leu Glu Pro Pro Tyr Ile Glu Ala His
 65 70 75 80

His Arg Val Cys Thr Tyr Asn Glu Thr Lys Gln Val Thr Val Lys Leu
 85 90 95

Pro Asn Cys Ala Pro Gly Val Asp Pro Phe Tyr Thr Tyr Pro Val Ala
 100 105 110

Ile Arg Cys Asp Cys Gly Ala Cys Ser Thr Ala Thr Thr Glu Leu Arg
 115 120 125

Leu Met Pro Gly Glu Ala Ala Val Ala Leu Gly Phe Trp Cys Gln Arg
 130 135 140

Arg Arg Gln Gly Ser Arg Thr Thr Gly Thr Arg Trp Arg His Ala Ala
 145 150 155 160

09730617-070901

Val Arg Asp Lys Val Ser Leu Leu Lys Ala Val Asp Gly Trp Asn Gly
165 170 175

Leu Leu Gly Asp Pro Ala Ser Ser Gln Gly Leu Ser Ala Ser Ser Cys
180 185 190

Thr Pro Val Phe Pro Leu Ala Phe Gln Ile Asp Ser Ala Ser Gly Lys
195 200 205

Val Gly Asn Phe Ser Ser Lys Gln Thr Phe Ile Phe Ser Ser Ala Glu
210 215 220

Ile Thr Leu Gly Gly Thr
225 230

<210> 7
<211> 483
<212> DNA
<213> Homo sapiens

<400> 7
cactgtcata ctgtttcaga attaaatatg cagaccagaa ggctctatac acaagagatg 60
gccagctgct ggtgggagat cctgttcag acaactgctg tgcagagaag atctgcatac 120
ttcctaacag aggccttgcc cgcaccaagg tccccatttt cctggggatc caggaggagg 180
gccgtgcct ggcattgtg gagacagaag aggggccttc cctacagctg gagccatcca 240
ccttgccttc acaggatgtg aacattgagg aactgtacaa aggtggtgaa gaggccacac 300
gcttcacctt cttccagagc agctcaggct ccgccttcag gcttgaggct gctgcctggc 360
ctggctgggt cctgtgtggc ccggcagagc cccagcagcc agtacagctc accaaggaga 420
gtgagccctc agcccgtacc aagttttact ttgaacagag ctggtaggga gacaggaaac 480
tgc 483

<210> 8
<211> 154
<212> PRT
<213> Homo sapiens

<400> 8
Leu Ser Tyr Cys Phe Arg Ile Lys Tyr Ala Asp Gln Lys Ala Leu Tyr
1 5 10 15
Thr Arg Asp Gly Gln Leu Leu Val Gly Asp Pro Val Ala Asp Asn Cys
20 25 30
Cys Ala Glu Lys Ile Cys Ile Leu Pro Asn Arg Gly Leu Ala Arg Thr
35 40 45

Lys Val Pro Ile Phe Leu Gly Ile Gln Gly Gly Ser Arg Cys Leu Ala
50 55 60

Cys Val Glu Thr Glu Glu Gly Pro Ser Leu Gln Leu Glu Pro Ser Thr
65 70 75 80

Leu Pro Pro Gln Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu
85 90 95

Glu Ala Thr Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe
100 105 110

Arg Leu Glu Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala
115 120 125

Glu Pro Gln Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala
130 135 140

Arg Thr Lys Phe Tyr Phe Glu Gln Ser Trp
145 150

<210> 9
<211> 520
<212> DNA
<213> Homo sapiens

<400> 9
atgggcacac ctggcctggc cctgcatgca gactggacgg tgagccagga cttctgcagg 60
acacccaaat cctatgctat tcgtgattct cgacagatgg tgtgggtcct gagtggaaat 120
tctttaatag cagctcctct tagccgcagc attaagcctg tcactcttca ttaatatagcc 180
tgtagagaca cagaattcag tgacaaggaa aagggttaata tggtttacct ggaatcaag 240
ggaaaagatc tctgtctctt ctgtgcagaa attcagggca agcctacttt gcagcttaag 300
gaaaaaaata tcattggacct gtatgtggag aagaaagcac agaagccctt tctctttttc 360
cacaataaag aaggctccac ttctgtcttt cagtcagtct cttaccctgg ctggttcata 420
gccacctcca ccacatcagg acagcccatc ttctcacca aggagagagg cataactaat 480
aacactaact tctacttaga ttctgtggaa taaatccagc 520

<210> 10
<211> 170
<212> PRT
<213> Homo sapiens

<400> 10
Met Gly Thr Pro Gly Leu Ala Leu His Ala Asp Trp Thr Val Ser Gln
1 5 10 15

09730617.070501

Asp Phe Cys Arg Thr Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln
20 25 30

Met Val Trp Val Leu Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser
35 40 45

Arg Ser Ile Lys Pro Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr
50 55 60

Glu Phe Ser Asp Lys Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys
65 70 75 80

Gly Lys Asp Leu Cys Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr
85 90 95

Leu Gln Leu Lys Glu Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys
100 105 110

Ala Gln Lys Pro Phe Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser
115 120 125

Val Phe Gln Ser Val Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr
130 135 140

Thr Ser Gly Gln Pro Ile Phe Leu Thr Lys Glu Arg Gly Ile Thr Asn
145 150 155 160

Asn Thr Asn Phe Tyr Leu Asp Ser Val Glu
165 170

<210> 11

<211> 391

<212> DNA

<213> Homo sapiens

<400> 11

gatatcaatc atcgggtgtg ggttcttcag gaccagacgc tcatagcagt cccgaggaag 60
gtgttcccag tcactattgc cttaatctca tgccgacatg tggagaccct tgagaaagac 120
agagggaacc ccatctacct gggcctgaat ggactcaatc tctgcctgat gtgtgctaaa 180
gtcgggggacc agcccacact gcagctgaag cttcaggaaa aggatataat ggatttgtag 240
aaccaaccg agcctgtgaa gtcctttctc ttctaccaca gccagagtgg caggaaactcc 300
acctcgagt ctgtgcttt cctggctg ttcatcgctg tcagctctga aggaggctgt 360
cctctcatcc ttaccaaga actggggaaa g 391

<210> 12

<211> 130

<212> PRT

<213> Homo sapiens

<400> 12

Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala
1 5 10 15

Val Pro Arg Lys Val Phe Pro Val Thr Ile Ala Leu Ile Ser Cys Arg
20 25 30

His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly
35 40 45

Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln
50 55 60

Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile Met Asp Leu Tyr
65 70 75 80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser
85 90 95

Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile
100 105 110

Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu
115 120 125

Gly Lys
130

<210> 13

<211> 23

<212> DNA

<213> Homo sapiens

<400> 13

acaacgagac caaacaggtg act

23

<210> 14

<211> 22

<212> DNA

<213> Homo sapiens

<400> 14

tcaagctgcc caactgtgcc cc

22

00730617-070901

09730617-070901

<210> 15
<211> 20
<212> DNA
<213> Homo sapiens

<400> 15
ggccacggga taggtgtaga 20

<210> 16
<211> 18
<212> DNA
<213> Homo sapiens

<400> 16
ttccagccca tccccatt 18

<210> 17
<211> 22
<212> DNA
<213> Homo sapiens

<400> 17
ccccacacct ccctgaggga cc 22

<210> 18
<211> 23
<212> DNA
<213> Homo sapiens

<400> 18
cagatcatga ctcagctgca gtc 23

<210> 19
<211> 117
<212> DNA
<213> Homo sapiens

<400> 19
acctcgggct gagccaaccc ctccagacac gttctgcagc tcgaggaagg aactgccctt 60
tgcagctggg atctgccga gtttcagcag cagccttgaa ttgtaatccc gagcggc 117

<210> 20
 <211> 117
 <212> DNA
 <213> Homo sapiens

<400> 20
 acctcgggct gagccaaacc ctccagacac gttctgcagc tcgaggaagg aactgccctt 60
 tgcagctggg atctgcccga gtttcagcag cagccttgaa ttgtaatccc gagcggc 117

<210> 21
 <211> 636
 <212> DNA
 <213> Homo sapiens

<400> 21
 gcgcgccccga acgaagccgc ggcccgggca cagcatggcc cgcggcgggga gggcgctcgg 60
 atgttcggca gctcctcgca ctctgccctg ctcgctgccg gcgtcgctccc gctcagctgg 120
 gatctcccgg agccccgcag ccgagccagc aagatccgag tgcactcgcg aggcaagctc 180
 tgggccatcg gtcacttcat gggcaagaag agtctggagc cttccagccc atccccattg 240
 gggacagctc cccacacctc cctgagggac cagcgactgc agctgagtca tgatctgtc 300
 ggaatcctcc tgctaaagaa ggctctgggc gtgagcctca gccgccccgc accccaaatc 360
 cagtacagga ggctgctggt acaaatactg cagaaatgac accaataatg gggcagacac 420
 aacagcgtgg cttagattgt gccaccacag ggaaggtgct gaatggggacc ctgttgatgg 480
 ccccatctgg atgtaaatcc tgagctcaaa tctctgttac tccattactg tgatttctgg 540
 ctgggtcacc agaaatatcg ctgatgcaga cacagattat gttcctgctg tatttctctg 600
 ttccctgttg aattggtgaa taaaacctt ctcctat 636

<210> 22
 <211> 629
 <212> DNA
 <213> Homo sapiens

<400> 22
 gcgcgccccga acgaagccgc ggcccgggca cagcatggcc cgcggcgggg ggcgctcggga 60
 tggttcggcag cctcctgcct tcgcctgctc cgtgcgcggc gtgcgccgct cagctgggat 120
 ctccgggagc cccgcagccg agccagcaag atccgagtgc actcgcgagg caactctggg 180
 ccacggtcac ttcatgggca agaagagtct ggagccttcc agcccatccc attggggaca 240
 gtcccccaca cctccctgag ggaccagcga ctgcagctga gtcgatgctc gtcggaatc 300
 ctctgcttaa agaaggctct gggcgtgagc ctccagccgc ccgcacccca aatccagtac 360
 aggaggctgc tggtagaaat actgcagaaa tgacaccaat aatggggcag acacaacagc 420
 gtggcttaga ttgtgcccac ccagggaagg tgctgaatgg gacctgttg atggcccat 480
 ctggatgtaa atcctgagct caaatctctg ttaactccatt actgtgattt ctggctgggt 540
 caccagaaat atcgctgatg cagacacaga ttatgttctt gctgtatttc ctgcttcctt 600
 gttgaattgg tgaataaaac ctgtctctt 629

09730617-070901

<210> 23
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 23
 gcgcgccccga acgaagccgc ggccccgggca cagccatggc ccggcggggcg gggggcgctc 60
 ggatgttcgg cagcctcctg ctcttcgccc tgctcgctgc cggcgtcgcc ccgctcagct 120
 gggatctccc ggagccccgc agccgagcca gcaagatccg agtgcaactcg cgaggcaacc 180
 tctggggccac cggtcacttc atgggcaaga agagtctgga gccttccagc ccatccatt 240
 ggggacagct cccacacact cccctgaggg acccagcact gcagctgagt catgatctgc 300
 tcggaatcct cctgctaaag aaggctctgg gcgtgagcct cagccgcccc gcaccccaaa 360
 tccagtacag gaggtctgtg gtacaaatac tgcagaaatg acaccaataa taggggcaga 420
 cacaacagcg tggcttagat tgtgcccacc cagggaaggt gctgaatggg accctgttga 480
 tggccccatc tggatgtaaa tcctgagctc aaatctctgt tactccatta ctgtgatttc 540
 tggtcgggtc accagaaata tcgctgatgc agacacagat tatgttcctg ctgtatttcc 600
 tgcttcctcg ttgaattggg gaataaaacc ttgctcttt 639

<210> 24
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 24
 Arg Arg Glu Gly Ala Arg Met Phe Gly Ser Leu Leu His Phe Ala Leu
 1 5 10 15
 Leu Ala Ala Gly Val Val Pro Leu Ser Trp Asp Leu Pro Glu Pro Arg
 20 25 30
 Ser Arg Ala Ser Lys Ile Arg Val His Ser Arg Gly Lys Leu Trp Ala
 35 40 45
 Ile Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser
 50 55 60
 Pro Leu Gly Thr Ala Pro His Thr Ser Leu Arg Asp Gln Arg Leu Gln
 65 70 75 80
 Leu Ser His Asp Leu Leu Gly Ile Leu Leu Leu Lys Lys Ala Leu Gly
 85 90 95
 Val Ser Leu Ser Arg Pro Ala Pro Gln Ile Gln Tyr Arg Arg Leu Leu
 100 105 110
 Val Gln Ile Leu Gln Lys
 115

69730617-070901

<210> 25
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 25
 Arg Gly Ala Arg Met Phe Gly Ser Leu Leu Phe Ala Leu Leu Ala Ala
 1 5 10 15

Gly Val Pro Leu Ser Trp Asp Leu Pro Glu Pro Arg Ser Arg Ala Ser
 20 25 30

Lys Ile Arg Val His Ser Arg Gly Leu Trp Ala Gly His Phe Met Gly
 35 40 45

Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser Gly Pro Leu Arg Asp Gln
 50 55 60

Arg Leu Gln Leu Ser His Asp Leu Leu Gly Ile Leu Leu Lys Lys
 65 70 75 80

Ala Leu Gly Val Ser Leu Ser Arg Pro Ala Pro Gln Ile Gln Tyr Arg
 85 90 95

Arg Leu Leu Val Gln Ile Leu Gln Lys
 100 105

<210> 26
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 26
 Arg Ala Gly Gly Ala Arg Met Phe Gly Ser Leu Leu Leu Phe Ala Leu
 1 5 10 15

Leu Ala Ala Gly Val Ala Pro Leu Ser Trp Asp Leu Pro Glu Pro Arg
 20 25 30

Ser Arg Ala Ser Lys Ile Arg Val His Ser Arg Gly Asn Leu Trp Ala
 35 40 45

Thr Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser
 50 55 60

00736617 070901

His Trp Gly Gln Leu Pro Thr Pro Pro Leu Arg Asp Gln Arg Leu Gln
65 70 75 80

Leu Ser His Asp Leu Leu Gly Ile Leu Leu Leu Lys Lys Ala Leu Gly
85 90 95

Val Ser Leu Ser Arg Pro Ala Pro Gln Ile Gln Tyr Arg Arg Leu Leu
100 105 110

Val Gln Ile Leu Gln Lys
115

<210> 27

<211> 112

<212> PRT

<213> Homo sapiens

<400> 27

Met Phe Gly Ser Leu Leu His Phe Ala Leu Leu Ala Ala Gly Val Val
1 5 10 15

Pro Leu Ser Trp Asp Leu Pro Glu Pro Arg Ser Arg Ala Ser Lys Ile
20 25 30

Arg Val His Ser Arg Gly Lys Leu Trp Ala Ile Gly His Phe Met Gly
35 40 45

Lys Lys Ser Leu Glu Pro Ser Ser Pro Ser Pro Leu Gly Thr Ala Pro
50 55 60

His Thr Ser Leu Arg Asp Gln Arg Leu Gln Leu Ser His Asp Leu Leu
65 70 75 80

Gly Ile Leu Leu Leu Lys Lys Ala Leu Gly Val Ser Leu Ser Arg Pro
85 90 95

Ala Pro Gln Ile Gln Tyr Arg Arg Leu Leu Val Gln Ile Leu Gln Lys
100 105 110

<210> 28

<211> 117

<212> PRT

<213> Homo sapiens

09730617-070901

09730617-070901

<400> 28

Met Thr Arg Gln Ala Gly Ser Thr Trp Leu Leu Arg Gly Leu Leu Leu
1 5 10 15

Phe Ala Leu Phe Val Ser Gly Ile Thr Pro Phe Ser Trp Asp Leu Pro
20 25 30

Glu Pro Arg Ser Arg Ala Ser Lys Ile Arg Val His Pro Arg Gly Asn
35 40 45

Leu Trp Ala Thr Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Pro
50 55 60

Ser Leu Ser Leu Val Gly Thr Ala Pro Pro Ile Thr Gln Arg Glu Gln
65 70 75 80

Arg Leu Gln Leu Ser His Asp Leu Leu Arg Ile Leu Leu Leu Gln Lys
85 90 95

Ala Leu Gly Met Asn Leu Ser Gly Pro Ala Pro Pro Ile Gln Tyr Arg
100 105 110

Arg Leu Leu Gln Lys
115

<210> 29

<211> 121

<212> PRT

<213> Homo sapiens

<400> 29

Met Ala Arg Arg Ala Gly Gly Ala Arg Met Phe Gly Ser Leu Leu Leu
1 5 10 15

Phe Ala Leu Leu Ala Ala Gly Val Ala Pro Leu Ser Trp Asp Leu Pro
20 25 30

Glu Pro Arg Ser Arg Ala Ser Lys Ile Arg Val His Ser Arg Gly Asn
35 40 45

Leu Trp Ala Thr Gly His Phe Met Gly Lys Lys Ser Leu Glu Pro Ser
50 55 60

Ser Pro Ser His Trp Gly Gln Leu Pro Thr Pro Pro Leu Arg Asp Gln
65 70 75 80

Arg Leu Gln Leu Ser His Asp Leu Leu Gly Ile Leu Leu Leu Lys Lys
85 90 95

Ala Leu Gly Val Ser Leu Ser Arg Pro Ala Pro Gln Ile Gln Tyr Arg
100 105 110

Arg Leu Leu Val Gln Ile Leu Gln Lys
115 120

<210> 30
<211> 205
<212> DNA
<213> Salmo salar

<400> 30
ctgctggggt cgctgtgaga cctgggagaa acccattctg gaacccccct atattgaagc 60
ccatcatcga gtctgtacct acaacgagac caaacagggtg actgtcaagc tgcccaactg 120
tgccccggga gtcgaccct tctacaccta tcccgaggcc atccgctgtg actgcggagc 180
ctgctccact gccaccacgg agctg 205

<210> 31
<211> 124
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: consensus
sequence

<400> 31
ctgcgggctt ggaccggagc cttaaaccga ttactcacg ttgacctacg agccagactc 60
ctccactgtc cccggtgacc cttcacctac cgtggctgct gtgactgcgc tgcagcaccg 120
actg 124

<210> 32
<211> 201
<212> DNA
<213> Homo sapiens

<400> 32
ctgcagtggc cactgcgtca ccaaggagcc ggttttcaag agccatttt ccaccgtgta 60
ccagcatgtg tgcacctacc gggagctccg ctatgaaacg atccgcctac ctgactgtcc 120
cccttgggtg gaccatcatg tcacctacc tgtggctctg agctgtgact gcagcctctg 180
taacatggac acttctgact g 201

05730617.070604

<210> 33
 <211> 85
 <212> PRT
 <213> Cyprinus carpio

<400> 33
 Thr Phe Leu Ala Lys Lys Pro Gly Cys Arg Gly Leu Arg Ile Thr Thr
 1 5 10 15

Asp Ala Cys Trp Gly Arg Cys Glu Thr Trp Glu Lys Pro Ile Leu Glu
 20 25 30

Pro Pro Tyr Ile Glu Ala His His Arg Val Cys Thr Tyr Asn Glu Thr
 35 40 45

Lys Gln Val Thr Val Lys Leu Pro Asn Cys Ala Pro Gly Val Asp Pro
 50 55 60

Phe Tyr Thr Tyr Pro Val Ala Ile Arg Cys Asp Cys Gly Ala Cys Ser
 65 70 75 80

Thr Ala Thr Thr Glu
 85

<210> 34
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: consensus
 sequence

<400> 34
 Thr Lys Gly Cys Leu Thr Cys Gly Cys Thr Glu Pro Pro Val Cys Thr
 1 5 10 15

Tyr Thr Val Leu Pro Cys Pro Gly Val Asp Pro Thr Tyr Pro Val Ala
 20 25 30

Cys Asp Cys Cys Thr
 35

<210> 35
 <211> 85

09730617-070501

<212> PRT
<213> Homo sapiens

<400> 35

Thr Val Ala Val Glu Lys Glu Gly Cys Pro Lys Cys Leu Val Leu Gln
1 5 10 15

Thr Thr Ile Cys Ser Gly His Cys Leu Thr Lys Glu Pro Val Tyr Lys
20 25 30

Ser Pro Phe Ser Thr Val Tyr Gln His Val Cys Thr Tyr Arg Asp Val
35 40 45

Arg Tyr Glu Thr Val Arg Leu Pro Asp Cys Pro Pro Gly Val Asp Pro
50 55 60

His Ile Thr Tyr Pro Val Ala Leu Ser Cys Asp Cys Ser Leu Cys Thr
65 70 75 80

Met Asp Thr Ser Asp
85

<210> 36

<211> 117

<212> PRT

<213> Clupea pallasi

<400> 36

Pro Met Ala Leu Leu Leu Leu Ala Gly Tyr Gly Cys Val Leu Gly Ala
1 5 10 15

Ser Ser Gly Asn Leu Arg Thr Phe Val Gly Cys Ala Val Arg Glu Phe
20 25 30

Thr Phe Leu Ala Lys Lys Pro Gly Cys Arg Gly Leu Arg Ile Thr Thr
35 40 45

Asp Ala Cys Trp Gly Arg Cys Glu Thr Trp Glu Lys Pro Ile Leu Glu
50 55 60

Pro Pro Tyr Ile Glu Ala His His Arg Val Cys Thr Tyr Asn Glu Thr
65 70 75 80

Lys Gln Val Thr Val Lys Leu Pro Asn Cys Ala Pro Gly Val Asp Pro
85 90 95

Phe Tyr Thr Tyr Pro Val Ala Ile Arg Cys Asp Cys Gly Ala Cys Ser

00730617.070901

100

105

110

Thr Ala Thr Thr Glu
115

<210> 37

<211> 47

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: consensus
sequence

<400> 37

Pro Leu Leu Cys Val Leu Ala Asn Leu Cys Thr Lys Gly Cys Arg Leu
1 5 10 15

Thr Cys Gly Cys Thr Glu Pro Pro Val Cys Thr Tyr Thr Leu Pro Cys
20 25 30

Ala Gly Val Asp Pro Thr Tyr Pro Val Ala Cys Cys Cys Ser Thr
35 40 45

<210> 38

<211> 116

<212> PRT

<213> Homo sapiens

<400> 38

Pro Glu Cys Thr Ile Leu Leu Leu Leu Cys Met Cys Val Leu Ala Val
1 5 10 15

Pro Ala Gln Cys Phe Asn Leu Gln Pro Cys Val Leu Val Asn Glu Thr
20 25 30

Val Ser Val Glu Lys Glu Gly Cys Pro Arg Cys Leu Val Phe Arg Thr
35 40 45

Thr Ile Cys Ser Gly His Cys Pro Thr Lys Glu Pro Val Tyr Lys Ser
50 55 60

Pro Phe Ser Val Val Asn Gln His Val Cys Thr Tyr Gly Asn Phe Arg
65 70 75 80

Tyr Glu Thr Ile Arg Leu Pro Asp Cys Ala Asp Gly Val Asp Pro Leu

09730617-070901

85

90

95

Val Thr Tyr Pro Val Ala Leu Ser Cys Glu Cys Ser Leu Cys Ser Met
100 105 110

Asp Thr Ser Asp
115

<210> 39

<211> 101

<212> PRT

<213> Homo sapiens

<400> 39

Ser Ser Gly Asn Leu Arg Thr Phe Val Gly Cys Ala Val Arg Glu Phe
1 5 10 15

Thr Phe Leu Ala Lys Lys Pro Gly Cys Arg Gly Leu Arg Ile Thr Thr
20 25 30

Asp Ala Cys Trp Gly Arg Cys Glu Thr Trp Glu Lys Pro Ile Leu Glu
35 40 45

Pro Pro Tyr Ile Glu Ala His His Arg Val Cys Thr Tyr Asn Glu Thr
50 55 60

Lys Gln Val Thr Val Lys Leu Pro Asn Cys Ala Pro Gly Val Asp Pro
65 70 75 80

Phe Tyr Thr Tyr Pro Val Ala Ile Arg Cys Asp Cys Gly Ala Cys Ser
85 90 95

Thr Ala Thr Thr Glu
100

<210> 40

<211> 40

<212> PRT

<213> Homo sapiens

<400> 40

Ser Gly Leu Arg Cys Thr Ala Lys Cys Thr Thr Cys Gly Cys Pro Pro
1 5 10 15

Pro Arg Val Cys Thr Tyr Glu Val Leu Pro Cys Pro Gly Val Asp Pro
20 25 30

Pro Val Ala Cys Cys Gly Cys Thr
 35 40

<210> 41
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 41
 Ser Arg Gly Pro Leu Arg Pro Leu Cys Gln Pro Ile Asn Ala Thr Leu
 1 5 10 15

Ala Ala Glu Lys Glu Ala Cys Pro Val Cys Ile Thr Phe Thr Thr Ser
 20 25 30

Ile Cys Ala Gly Tyr Cys Pro Ser Met Lys Arg Val Leu Pro Val Ile
 35 40 45

Leu Pro Pro Met Pro Gln Arg Val Cys Thr Tyr His Glu Leu Arg Phe
 50 55 60

Ala Ser Val Arg Leu Pro Gly Cys Pro Pro Gly Val Asp Pro Met Val
 65 70 75 80

Ser Phe Pro Val Ala Leu Ser Cys His Cys Gly Pro Cys Arg Leu Ser
 85 90 95

Ser Thr Asp

<210> 42
 <211> 116
 <212> PRT
 <213> Equus caballus

<400> 42
 Met Ala Leu Leu Leu Ala Gly Tyr Gly Cys Val Leu Gly Ala Ser
 1 5 10 15

Ser Gly Asn Leu Arg Thr Phe Val Gly Cys Ala Val Arg Glu Phe Thr
 20 25 30

Phe Leu Ala Lys Lys Pro Gly Cys Arg Gly Leu Arg Ile Thr Thr Asp
 35 40 45

05730617-070001

Ala Cys Trp Gly Arg Cys Glu Thr Trp Glu Lys Pro Ile Leu Glu Pro
50 55 60

Pro Tyr Ile Glu Ala His His Arg Val Cys Thr Tyr Asn Glu Thr Lys
65 70 75 80

Gln Val Thr Val Lys Leu Pro Asn Cys Ala Pro Gly Val Asp Pro Phe
85 90 95

Tyr Thr Tyr Pro Val Ala Ile Arg Cys Asp Cys Gly Ala Cys Ser Thr
100 105 110

Ala Thr Thr Glu
115

<210> 43

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: consensus
sequence

<400> 43

Leu Leu Gly Val Ala Ser Gly Leu Arg Cys Thr Ala Lys Cys Thr Thr
1 5 10 15

Cys Gly Cys Pro Ala Val Cys Thr Tyr Glu Leu Pro Cys Pro Gly Val
20 25 30

Asp Pro Pro Val Ala Cys Cys Gly Cys Thr Thr
35 40

<210> 44

<211> 113

<212> PRT

<213> Homo sapiens

<400> 44

Leu Leu Leu Trp Met Leu Leu Ser Val Gly Gly Val Trp Ala Ser Arg
1 5 10 15

Gly Pro Leu Arg Pro Leu Cys Arg Pro Ile Asn Ala Thr Leu Ala Ala
20 25 30

00730617-070501

Glu Lys Glu Ala Cys Pro Ile Cys Ile Thr Phe Thr Thr Ser Ile Cys
35 40 45

Ala Gly Tyr Cys Pro Ser Met Val Arg Val Met Pro Ala Ala Leu Pro
50 55 60

Ala Ile Pro Gln Pro Val Cys Thr Tyr Arg Glu Leu Arg Phe Ala Ser
65 70 75 80

Ile Arg Leu Pro Gly Cys Pro Pro Gly Val Asp Pro Met Val Ser Phe
85 90 95

Pro Val Ala Leu Ser Cys His Cys Gly Pro Cys Gln Ile Lys Thr Thr
100 105 110

Asp

<210> 45

<211> 144

<212> PRT

<213> Homo sapiens

<400> 45

Met Gly Thr Pro Val Lys Ile Leu Val Val Arg Asn His Ile Leu Phe
1 5 10 15

Ser Val Val Val Leu Leu Ala Val Ala Gln Ser Ser Tyr Leu Pro Pro
20 25 30

Cys Glu Pro Val Asn Glu Thr Val Ala Val Glu Lys Glu Gly Cys Pro
35 40 45

Lys Cys Leu Val Leu Gln Thr Thr Ile Cys Ser Gly His Cys Leu Thr
50 55 60

Lys Glu Pro Val Tyr Lys Ser Pro Phe Ser Thr Val Tyr Gln His Val
65 70 75 80

Cys Thr Tyr Arg Asp Val Arg Tyr Glu Thr Val Arg Leu Pro Asp Cys
85 90 95

Pro Pro Gly Val Asp Pro His Ile Thr Tyr Pro Val Ala Leu Ser Cys
100 105 110

Asp Cys Ser Leu Cys Thr Met Asp Thr Ser Asp Cys Thr Ile Glu Ser
115 120 125

Leu Gln Pro Asp Phe Cys Met Ser Gln Arg Glu Asp Phe Leu Val Tyr
 130 135 140

<210> 46
 <211> 140
 <212> PRT
 <213> Carassius auratus

<400> 46
 Met Gly Thr Pro Val Lys Ile Leu Val Val Leu Phe Ser Val Ile Val
 1 5 10 15

Leu Leu Ala Val Ala Gln Ser Ser Tyr Leu Pro Pro Cys Glu Pro Val
 20 25 30

Asn Glu Thr Val Ala Val Glu Lys Glu Gly Cys Pro Lys Cys Leu Val
 35 40 45

Leu Gln Thr Thr Ile Cys Ser Gly His Cys Leu Thr Lys Glu Pro Val
 50 55 60

Tyr Lys Ser Pro Phe Ser Thr Val Tyr Gln His Val Cys Thr Tyr Arg
 65 70 75 80

Asp Val Arg Tyr Glu Thr Val Arg Leu Pro Asp Cys Pro Pro Gly Val
 85 90 95

Asp Pro His Ile Thr Tyr Pro Val Ala Leu Ser Cys Asp Cys Ser Leu
 100 105 110

Cys Thr Met Asp Thr Ser Asp Cys Thr Ile Glu Ser Leu Gln Pro Asp
 115 120 125

Phe Cys Met Ser Gln Arg Glu Asp Phe Leu Val Tyr
 130 135 140

<210> 47
 <211> 141
 <212> PRT
 <213> Bos taurus

<400> 47

05730617-070901

05730617.070001

Met Glu Met Phe Gln Gly Leu Leu Leu Trp Leu Leu Leu Gly Val Ala
1 5 10 15

Gly Val Trp Ala Ser Arg Gly Pro Leu Arg Pro Leu Cys Gln Pro Ile
20 25 30

Asn Ala Thr Leu Ala Ala Glu Lys Glu Ala Cys Pro Val Cys Ile Thr
35 40 45

Phe Thr Thr Ser Ile Cys Ala Gly Tyr Cys Pro Ser Met Lys Arg Val
50 55 60

Leu Pro Val Ile Leu Pro Pro Met Pro Gln Arg Val Cys Thr Tyr His
65 70 75 80

Glu Leu Arg Phe Ala Ser Val Arg Leu Pro Gly Cys Pro Pro Gly Val
85 90 95

Asp Pro Met Val Ser Phe Pro Val Ala Leu Ser Cys His Cys Gly Pro
100 105 110

Cys Arg Leu Ser Ser Thr Asp Cys Gly Gly Pro Arg Thr Gln Pro Leu
115 120 125

Ala Cys Asp His Pro Pro Leu Pro Asp Ile Leu Phe Leu
130 135 140

<210> 48

<211> 141

<212> PRT

<213> Ovis aries

<400> 48

Met Glu Met Leu Gln Gly Leu Leu Leu Trp Leu Leu Leu Gly Val Ala
1 5 10 15

Gly Val Trp Ala Ser Arg Gly Pro Leu Arg Pro Leu Cys Gln Pro Ile
20 25 30

Asn Ala Thr Leu Ala Ala Glu Lys Glu Ala Cys Pro Val Cys Ile Thr
35 40 45

Phe Thr Thr Ser Ile Cys Ala Gly Tyr Cys Leu Ser Met Lys Arg Val
50 55 60

Leu Pro Val Ile Leu Pro Pro Met Pro Gln Arg Val Cys Thr Tyr His
65 70 75 80

Glu Leu Arg Phe Ala Ser Val Arg Leu Pro Gly Cys Pro Pro Gly Val
85 90 95

Asp Pro Met Val Ser Phe Pro Val Ala Leu Ser Cys His Cys Gly Pro
100 105 110

Cys Arg Leu Ser Ser Thr Asp Cys Gly Gly Pro Arg Thr Gln Pro Leu
115 120 125

Ala Cys Asp His Pro Pro Leu Pro Asp Ile Leu Phe Leu
130 135 140

<210> 49

<211> 230

<212> PRT

<213> Homo sapiens

<400> 49

Met Lys Leu Ala Phe Leu Phe Leu Gly Pro Met Ala Leu Leu Leu Leu
1 5 10 15

Ala Gly Tyr Gly Cys Val Leu Gly Ala Ser Ser Gly Asn Leu Arg Thr
20 25 30

Phe Val Gly Cys Ala Val Arg Glu Phe Thr Phe Leu Ala Lys Lys Pro
35 40 45

Gly Cys Arg Gly Leu Arg Ile Thr Thr Asp Ala Cys Trp Gly Arg Cys
50 55 60

Glu Thr Trp Glu Lys Pro Ile Leu Glu Pro Pro Tyr Ile Glu Ala His
65 70 75 80

His Arg Val Cys Thr Tyr Asn Glu Thr Lys Gln Val Thr Val Lys Leu
85 90 95

Pro Asn Cys Ala Pro Gly Val Asp Pro Phe Tyr Thr Tyr Pro Val Ala
100 105 110

Ile Arg Cys Asp Cys Gly Ala Cys Ser Thr Ala Thr Thr Glu Leu Arg
115 120 125

Leu Met Pro Gly Glu Ala Ala Val Ala Leu Gly Phe Trp Cys Gln Arg
130 135 140

Arg Arg Gln Gly Ser Arg Thr Thr Gly Thr Arg Trp Arg His Ala Ala

09730617.070901

09730617-070501

<213> Homo sapiens

<400> 52

aggcagttaa catcactgac ctgagcaaga acaaggagga gaacaagcgc ttcaccttca 60
tccgtcaaaa cagtggcccc accaccagct tgcagtctgc cgctgacctt ggctgggtcc 120
tctgcacggc gcaggaggca gaccggcccg tcagcctcac caacaagccc aaagagtcct 180
tcatggtcac caagttctac ttccaggagg accagtag 218

<210> 53

<211> 149

<212> PRT

<213> Mus musculus

<400> 53

Cys Phe Arg Ile Lys Tyr Ala Asp Gln Lys Ala Leu Tyr Thr Arg Asp
1 5 10 15
Gly Gln Leu Leu Val Gly Asp Pro Val Ala Asp Asn Cys Cys Ala Glu
20 25 30
Lys Ile Cys Ile Leu Pro Asn Arg Gly Leu Ala Arg Thr Lys Val Pro
35 40 45
Ile Phe Leu Gly Ile Gln Gly Gly Ser Arg Cys Leu Ala Cys Val Glu
50 55 60
Thr Glu Glu Gly Pro Ser Leu Gln Leu Glu Pro Ser Thr Leu Pro Pro
65 70 75 80
Gln Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu Glu Ala Thr
85 90 95
Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe Arg Leu Glu
100 105 110
Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro Gln
115 120 125
Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg Thr Lys
130 135 140
Phe Tyr Phe Glu Gln
145

<210> 54

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: consensus
sequence

<400> 54

Cys Phe Arg Lys Lys Leu Tyr Gln Leu Leu Gly Ala Glu Ile Pro Asn
1 5 10 15

Arg Leu Pro Leu Gly Gln Gly Gly Ser Cys Leu Cys Thr Glu Gly Pro
20 25 30

Leu Leu Glu Pro Val Asn Ile Glu Leu Tyr Gly Glu Phe Thr Phe Gly
35 40 45

Glu Ala Ala Pro Gly Trp Phe Leu Cys Glu Gln Pro Val Leu Thr Glu
50 55 60

Ala Thr Phe Tyr Phe Gln
65 70

<210> 55

<211> 146

<212> PRT

<213> Homo sapiens

<400> 55

Cys Phe Arg Met Lys Asp Ser Ala Leu Lys Val Leu Tyr Leu His Asn
1 5 10 15

Asn Gln Leu Leu Ala Gly Gly Leu His Ala Glu Lys Val Ile Lys Gly
20 25 30

Glu Glu Ile Ser Val Val Pro Asn Arg Ala Leu Asp Ala Ser Leu Ser
35 40 45

Pro Val Ile Leu Gly Val Gln Gly Gly Ser Gln Cys Leu Ser Cys Gly
50 55 60

Thr Glu Lys Gly Pro Ile Leu Lys Leu Glu Pro Val Asn Ile Met Glu
65 70 75 80

Leu Tyr Leu Gly Ala Lys Glu Ser Lys Ser Phe Thr Phe Tyr Arg Arg
85 90 95

05730617-070901

Asp Met Gly Leu Thr Ser Ser Phe Glu Ser Ala Ala Tyr Pro Gly Trp
 100 105 110

Phe Leu Cys Thr Ser Pro Glu Ala Asp Gln Pro Val Arg Leu Thr Gln
 115 120 125

Ile Pro Glu Asp Pro Ala Trp Asp Ala Pro Ile Thr Asp Phe Tyr Phe
 130 135 140

Gln Gln
 145

<210> 56
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 56
 Cys Phe Arg Ile Lys Tyr Ala Asp Gln Lys Ala Leu Tyr Thr Arg Asp
 1 5 10 15

Gly Gln Leu Leu Val Gly Asp Pro Val Ala Asp Asn Cys Cys Ala Glu
 20 25 30

Lys Ile Cys Ile Leu Pro Asn Arg Gly Leu Ala Arg Thr Lys Val Pro
 35 40 45

Ile Phe Leu Gly Ile Gln Gly Gly Ser Arg Cys Leu Ala Cys Val Glu
 50 55 60

Thr Glu Glu Gly Pro Ser Leu Gln Leu Glu Pro Ser Thr Leu Pro Pro
 65 70 75 80

Gln Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu Glu Ala Thr
 85 90 95

Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe Arg Leu Glu
 100 105 110

Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro Gln
 115 120 125

Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg Thr Lys
 130 135 140

Phe Tyr Phe Glu Gln
 145

00730617.070501

<210> 57
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 57
 Cys Phe Arg Lys Lys Leu Tyr Gln Leu Leu Gly Ala Glu Ile Pro Asn
 1 5 10 15

Arg Leu Pro Leu Gly Gln Gly Gly Ser Cys Leu Cys Glu Pro Leu Leu
 20 25 30

Glu Pro Val Asn Ile Glu Leu Tyr Gly Glu Phe Thr Phe Gly Glu Ala
 35 40 45

Ala Pro Gly Trp Phe Leu Cys Glu Gln Pro Val Leu Thr Glu Thr Phe
 50 55 60

Tyr Phe Gln
 65

<210> 58
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 58
 Cys Phe Arg Met Lys Asp Ser Ala Leu Lys Val Leu Tyr Leu His Asn
 1 5 10 15

Asn Gln Leu Leu Ala Gly Gly Leu His Ala Gly Lys Val Ile Lys Gly
 20 25 30

Glu Glu Ile Ser Val Val Pro Asn Arg Trp Leu Asp Ala Ser Leu Ser
 35 40 45

Pro Val Ile Leu Gly Val Gln Gly Gly Ser Gln Cys Leu Ser Cys Gly
 50 55 60

Val Gly Gln Glu Pro Thr Leu Thr Leu Glu Pro Val Asn Ile Met Glu
 65 70 75 80

Leu Tyr Leu Gly Ala Lys Glu Ser Lys Ser Phe Thr Phe Tyr Arg Arg
 85 90 95

00730617-070501

Asp Met Gly Leu Thr Ser Ser Phe Glu Ser Ala Ala Tyr Pro Gly Trp
 100 105 110

Phe Leu Cys Thr Val Pro Glu Ala Asp Gln Pro Val Arg Leu Thr Gln
 115 120 125

Leu Pro Glu Asn Gly Gly Trp Asn Ala Pro Ile Thr Asp Phe Tyr Phe
 130 135 140

Gln Gln
 145

<210> 59

<211> 173

<212> PRT

<213> Homo sapiens

<400> 59

Asp Asn His Thr Met Arg Gly Thr Pro Gly Asp Ala Asp Gly Gly Gly
 1 5 10 15

Arg Ala Val Tyr Gln Ser Met Cys Lys Pro Ile Thr Gly Thr Ile Asn
 20 25 30

Asp Leu Asn Gln Gln Val Trp Thr Leu Gln Gly Gln Asn Leu Val Ala
 35 40 45

Val Pro Arg Ser Asp Ser Val Thr Pro Val Thr Val Ala Val Ile Thr
 50 55 60

Cys Lys Tyr Pro Glu Ala Leu Glu Gln Gly Arg Gly Asp Pro Ile Tyr
 65 70 75 80

Leu Gly Ile Gln Asn Pro Glu Met Cys Leu Tyr Cys Glu Lys Val Gly
 85 90 95

Glu Gln Pro Thr Leu Gln Leu Lys Glu Gln Lys Ile Met Asp Leu Tyr
 100 105 110

Gly Gln Pro Glu Pro Val Lys Pro Phe Leu Phe Tyr Arg Ala Lys Thr
 115 120 125

Gly Arg Thr Ser Thr Leu Glu Ser Val Ala Phe Pro Asp Trp Phe Ile
 130 135 140

Ala Ser Ser Lys Arg Asp Gln Pro Ile Ile Leu Thr Ser Glu Leu Gly
 145 150 155 160

05730617.070001

Lys Ser Tyr Asn Thr Ala Phe Glu Leu Asn Ile Asn Asp
 165 170

<210> 60

<211> 212

<212> PRT

<213> Homo sapiens

<400> 60

Asp Asn His Thr Met Arg Gly Thr Pro Gly Asp Ala Asp Gly Gly Gly
 1 5 10 15

Arg Ala Val Tyr Gln Ser Ser Glu Ser Asn Ala Val Gly Met Gly Leu
 20 25 30

Trp Arg Leu Arg Pro Ser Ala Leu Thr Leu Ser Pro Val Glu Ala Pro
 35 40 45

Ala Phe Ser Ala Pro Leu Cys Thr Leu Pro Phe Pro Pro Val Cys Lys
 50 55 60

Pro Ile Thr Gly Thr Ile Asn Asp Leu Asn Gln Gln Val Trp Thr Leu
 65 70 75 80

Gln Gly Gln Asn Leu Val Ala Val Pro Arg Ser Asp Ser Val Thr Pro
 85 90 95

Val Thr Val Ala Val Ile Thr Cys Lys Tyr Pro Glu Ala Leu Glu Gln
 100 105 110

Gly Arg Gly Asp Pro Ile Tyr Leu Gly Ile Gln Asn Pro Glu Met Cys
 115 120 125

Leu Tyr Cys Glu Lys Val Gly Glu Gln Pro Thr Leu Gln Leu Lys Glu
 130 135 140

Gln Lys Ile Met Asp Leu Tyr Gly Gln Pro Glu Pro Val Lys Pro Phe
 145 150 155 160

Leu Phe Tyr Arg Ala Lys Thr Gly Arg Thr Ser Thr Leu Glu Ser Val
 165 170 175

Ala Phe Pro Asp Trp Phe Ile Ala Ser Ser Lys Arg Asp Gln Pro Ile
 180 185 190

Ile Leu Thr Ser Glu Leu Gly Lys Ser Tyr Asn Thr Ala Phe Glu Leu

09730617-070901

195

200

205

Asn Ile Asn Asp

210

<210> 61

<211> 155

<212> PRT

<213> Homo sapiens

<400> 61

Met Val Leu Ser Gly Ala Leu Cys Phe Arg Met Lys Asp Ser Ala Leu

1

5

10

15

Lys Val Leu Tyr Leu His Asn Asn Gln Leu Leu Ala Gly Gly Leu His

20

25

30

Ala Gly Lys Val Ile Lys Gly Glu Glu Ile Ser Val Val Pro Asn Arg

35

40

45

Trp Leu Asp Ala Ser Leu Ser Pro Val Ile Leu Gly Val Gln Gly Gly

50

55

60

Ser Gln Cys Leu Ser Cys Gly Val Gly Gln Glu Pro Thr Leu Thr Leu

65

70

75

80

Glu Pro Val Asn Ile Met Glu Leu Tyr Leu Gly Ala Lys Glu Ser Lys

85

90

95

Ser Phe Thr Phe Tyr Arg Arg Asp Met Gly Leu Thr Ser Ser Phe Glu

100

105

110

Ser Ala Ala Tyr Pro Gly Trp Phe Leu Cys Thr Val Pro Glu Ala Asp

115

120

125

Gln Pro Val Arg Leu Thr Gln Leu Pro Glu Asn Gly Gly Trp Asn Ala

130

135

140

Pro Ile Thr Asp Phe Tyr Phe Gln Gln Cys Asp

145

150

155

<210> 62

<211> 180

<212> PRT

<213> Homo sapiens

05730617.070901

<400> 62

Met Ala Leu Ala Asp Leu Tyr Glu Glu Gly Gly Gly Gly Gly Glu
1 5 10 15

Gly Glu Asp Asn Ala Asp Ser Lys Glu Thr Ile Cys Arg Pro Ser Gly
20 25 30

Arg Lys Ser Ser Lys Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln
35 40 45

Lys Thr Phe Tyr Leu Arg Asn Asn Gln Leu Val Ala Gly Tyr Leu Gln
50 55 60

Gly Pro Asn Val Asn Leu Glu Glu Lys Ile Asp Val Val Pro Ile Glu
65 70 75 80

Pro His Ala Leu Phe Leu Gly Ile His Gly Gly Lys Met Cys Leu Ser
85 90 95

Cys Val Lys Ser Gly Asp Glu Thr Arg Leu Gln Leu Glu Ala Val Asn
100 105 110

Ile Thr Asp Leu Ser Glu Asn Arg Lys Gln Asp Lys Arg Phe Ala Phe
115 120 125

Ile Arg Ser Asp Ser Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys
130 135 140

Pro Gly Trp Phe Leu Cys Thr Ala Met Glu Ala Asp Gln Pro Val Ser
145 150 155 160

Leu Thr Asn Met Pro Asp Glu Gly Val Met Val Thr Lys Phe Tyr Phe
165 170 175

Gln Glu Asp Glu
180

<210> 63

<211> 158

<212> PRT

<213> Homo sapiens

<400> 63

Gly Pro Ser Ala Leu Ser Tyr Cys Phe Arg Ile Lys Tyr Ala Asp Gln
1 5 10 15

Lys Ala Leu Tyr Thr Arg Asp Gly Gln Leu Leu Val Gly Asp Pro Val

09730617-070901

20

25

30

Ala Asp Asn Cys Cys Ala Glu Lys Ile Cys Ile Leu Pro Asn Arg Gly
35 40 45

Leu Ala Arg Thr Lys Val Pro Ile Phe Leu Gly Ile Gln Gly Gly Ser
50 55 60

Arg Cys Leu Ala Cys Val Glu Thr Glu Glu Gly Pro Ser Leu Gln Leu
65 70 75 80

Glu Pro Ser Thr Leu Pro Pro Gln Asp Val Asn Ile Glu Glu Leu Tyr
85 90 95

Lys Gly Gly Glu Glu Ala Thr Arg Phe Thr Phe Phe Gln Ser Ser Ser
100 105 110

Gly Ser Ala Phe Arg Leu Glu Ala Ala Ala Trp Pro Gly Trp Phe Leu
115 120 125

Cys Gly Pro Ala Glu Pro Gln Gln Pro Val Gln Leu Thr Lys Glu Ser
130 135 140

Glu Pro Ser Ala Arg Thr Lys Phe Tyr Phe Glu Gln Ser Trp
145 150 155

<210> 64

<211> 266

<212> PRT

<213> Sus scrofa

<400> 64

Met Ala Thr Val Pro Glu Pro Ile Asn Glu Val Met Ala Tyr Tyr Ser
1 5 10 15

Asp Glu Asn Glu Leu Leu Phe Glu Val Asp Gly Pro Lys Gln Met Lys
20 25 30

Ser Cys Thr Gln His Leu Asp Leu Gly Ser Met Gly Asp Gly Asn Ile
35 40 45

Gln Leu Gln Ile Ser His Gln Leu Tyr Asn Lys Ser Phe Arg Gln Val
50 55 60

Val Ser Val Ile Val Ala Met Glu Lys Leu Arg Ser Arg Ala Tyr Glu
65 70 75 80

09730617.070901

His Val Phe Arg Asp Asp Asp Leu Arg Ser Ile Leu Ser Phe Ile Phe
85 90 95

Glu Glu Glu Pro Val Ile Phe Glu Thr Ser Ser Asp Glu Leu Leu Cys
100 105 110

Asp Ala Ala Val Gln Ser Val Lys Cys Lys Leu Gln Asp Arg Glu Gln
115 120 125

Lys Ser Leu Val Leu Asp Ser Pro Cys Val Leu Lys Ala Leu His Leu
130 135 140

Leu Ser Gln Glu Met Ser Arg Glu Val Val Phe Cys Met Ser Phe Val
145 150 155 160

Gln Gly Glu Glu Arg Asp Asn Lys Ile Pro Val Ala Leu Gly Ile Arg
165 170 175

Asp Lys Asn Leu Tyr Leu Ser Cys Val Lys Lys Gly Asp Thr Pro Thr
180 185 190

Leu Gln Leu Glu Glu Val Asp Pro Lys Val Tyr Pro Lys Arg Asn Met
195 200 205

Glu Lys Arg Phe Val Phe Tyr Lys Thr Glu Ile Lys Asn Thr Val Glu
210 215 220

Phe Glu Ser Val Leu Tyr Pro Asn Trp Tyr Ile Ser Thr Ser Gln Ile
225 230 235 240

Glu Glu Lys Pro Val Phe Leu Gly Arg Phe Arg Gly Gly Gln Asp Ile
245 250 255

Thr Asp Phe Arg Met Glu Thr Leu Ser Pro
260 265

<210> 65

<211> 329

<212> DNA

<213> Sus scrofa

<400> 65

cattttaatag cctgtagaga cacagaattc agtgacaagg aaaagggttaa tatggtttac 60
ctgggaatca agggaaaaga tctctgtctc ttctgtgcag aaattcaggg caagcctact 120
ttgcagctta agggaaaaaa tatcatggac ctgtatgtgg agaagaaagc acagaagccc 180
tttctctttt tccacaataa agaaggctcc acttctgtct ttcagtcagt ctcttaccct 240
ggctgggttca tagccacctc caccacatca ggacagccca tctttctcac caaggagaga 300

ggcataacta ataactactaa cttctactt

329

<210> 66

<211> 197

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: consensus
sequence

<400> 66

catatactga gagaaagatg tgcgagtatt gttcctggga tcaggaactt gcttctgtga 60
atcggagtat cagtagaaaa tcagacctga gaagagcaaa agccttcttt cccaagggcc 120
caccctttag tcagcctcct ggctggttct cactcacaac agcagcctct caccaagagc 180
ataacacaat tctactt 197

<210> 67

<211> 331

<212> DNA

<213> Homo sapiens

<400> 67

caaatactaa actggaagag aagatagatg tggtgccctgt tgagcctcat tttgtgttcc 60
tgaggatcca tggaggaag ctgtgcctgt cctgtgtcaa gtctgggat gagatgaagc 120
tccagtggga cgcagttaac atcacagacc tgagaaagaa cagcgagcag gacaagcgct 180
tcaccttcat ccgctccgac agtggcccca ccaccagctt tgagtcagcc gcctgtcctg 240
gctggttctc ctgcactgca ctagaggcag accagcctgt tggcctcacc aacacgcccc 300
aagcagccgt caaggtcacc aagttctact t 331

<210> 68

<211> 149

<212> PRT

<213> Homo sapiens

<400> 68

Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu

1

5

10

15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro

20

25

30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys

35

40

45

05730617.070001

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu
65 70 75 80

Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys Ala Gln Lys Pro Phe
85 90 95

Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser Val Phe Gln Ser Val
100 105 110

Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr Thr Ser Gly Gln Pro
115 120 125

Ile Phe Leu Thr Lys Glu Arg Gly Ile Thr Asn Asn Thr Asn Phe Tyr
130 135 140

Leu Asp Ser Val Glu
145

<210> 69

<211> 149

<212> PRT

<213> Homo sapiens

<400> 69

Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
1 5 10 15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
20 25 30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
35 40 45

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu
65 70 75 80

Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys Ala Gln Lys Pro Phe
85 90 95

Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser Val Phe Gln Ser Val
100 105 110

Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr Thr Ser Gly Gln Pro
115 120 125

Ile Phe Leu Thr Lys Glu Arg Gly Ile Thr Asn Asn Thr Asn Phe Tyr
130 135 140

Leu Asp Ser Val Glu
145

<210> 70
<211> 149
<212> PRT
<213> Homo sapiens

<400> 70
Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
1 5 10 15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
20 25 30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
35 40 45

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu
65 70 75 80

Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys Ala Gln Lys Pro Phe
85 90 95

Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser Val Phe Gln Ser Val
100 105 110

Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr Thr Ser Gly Gln Pro
115 120 125

Ile Phe Leu Thr Lys Glu Arg Gly Ile Thr Asn Asn Thr Asn Phe Tyr
130 135 140

Leu Asp Ser Val Glu
145

00730617.070901

<210> 71
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 71
 Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
 1 5 10 15
 Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
 20 25 30
 Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
 35 40 45
 Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
 50 55 60
 Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu
 65 70 75 80
 Lys Asn Ile Met Asp
 85

<210> 72
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 72
 Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
 1 5 10 15
 Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
 20 25 30
 Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
 35 40 45
 Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
 50 55 60
 Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Asp
 65 70 75 80

05730517-070901

<210> 73
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 73
 Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu
 1 5 10 15

Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro
 20 25 30

Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys
 35 40 45

Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys
 50 55 60

Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Leu
 65 70 75 80

Gln Gly Ser Gln Asp
 85

<210> 74
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 74
 Tyr Ala Ile Arg Asp Ser Arg Gln Met Val Trp Val Leu Ser Gly Asn
 1 5 10 15

Ser Leu Ile Ala Ala Pro Leu Ser Arg Ser Ile Lys Pro Val Thr Leu
 20 25 30

His Leu Ile Ala Cys Arg Asp Thr Glu Phe Ser Asp Lys Glu Lys Gly
 35 40 45

Asn Met Val Tyr Leu Gly Ile Lys Gly Lys Asp Leu Cys Leu Phe Cys
 50 55 60

Ala Glu Ile Gln Gly Lys Pro Thr Leu Gln Leu Lys Glu Lys Asn Ile
 65 70 75 80

09730617-070901

Met Asp Leu Tyr Val Glu Lys Lys Ala Gln Lys Pro Phe Leu Phe Phe
85 90 95

His Asn Lys Glu Gly Ser Thr Ser Val Phe Gln Ser Val Ser Tyr Pro
100 105 110

Gly Trp Phe Ile Ala Thr Ser Thr Thr Ser Gly Gln Pro Ile Phe Leu
115 120 125

Thr Lys Glu Arg Gly Ile Thr Asn Asn Thr Asn Phe Tyr Leu Asp Ser
130 135 140

Val Glu
145

<210> 75
<211> 52
<212> PRT
<213> Homo sapiens

<400> 75
Asp Ser Val Leu Asn Leu Ala Leu Lys Ile Asp Leu Gly Gly Cys Leu
1 5 10 15

Cys Gln Pro Thr Leu Leu Asn Ile Met Leu Tyr Lys Lys Phe Phe Gly
20 25 30

Thr Ser Phe Ser Tyr Pro Gly Trp Phe Thr Gln Pro Leu Thr Glu Gly
35 40 45

Asn Thr Phe Tyr
50

<210> 76
<211> 147
<212> PRT
<213> Homo sapiens

<400> 76
Phe Arg Met Lys Asp Ser Ala Leu Lys Val Leu Tyr Leu His Asn Asn
1 5 10 15

Gln Leu Leu Ala Gly Gly Leu His Ala Gly Lys Val Ile Lys Gly Glu
20 25 30

Glu Ile Ser Val Val Pro Asn Arg Trp Leu Asp Ala Ser Leu Ser Pro

00730617.070501

35

40

45

Val Ile Leu Gly Val Gln Gly Gly Ser Gln Cys Leu Ser Cys Gly Val
50 55 60

Gly Gln Glu Pro Thr Leu Thr Leu Glu Pro Val Asn Ile Met Glu Leu
65 70 75 80

Tyr Leu Gly Ala Lys Glu Ser Lys Ser Phe Thr Phe Tyr Arg Arg Asp
85 90 95

Met Gly Leu Thr Ser Ser Phe Glu Ser Ala Ala Tyr Pro Gly Trp Phe
100 105 110

Leu Cys Thr Val Pro Glu Ala Asp Gln Pro Val Arg Leu Thr Gln Leu
115 120 125

Pro Glu Asn Gly Gly Trp Asn Ala Pro Ile Thr Asp Phe Tyr Phe Gln
130 135 140

Gln Cys Asp
145

<210> 77

<211> 170

<212> PRT

<213> Homo sapiens

<400> 77

Met Gly Thr Pro Gly Leu Ala Leu His Ala Asp Trp Thr Val Ser Gln
1 5 10 15

Asp Phe Cys Arg Thr Pro Lys Ser Tyr Ala Ile Arg Asp Ser Arg Gln
20 25 30

Met Val Trp Val Leu Ser Gly Asn Ser Leu Ile Ala Ala Pro Leu Ser
35 40 45

Arg Ser Ile Lys Pro Val Thr Leu His Leu Ile Ala Cys Arg Asp Thr
50 55 60

Glu Phe Ser Asp Lys Glu Lys Gly Asn Met Val Tyr Leu Gly Ile Lys
65 70 75 80

Gly Lys Asp Leu Cys Leu Phe Cys Ala Glu Ile Gln Gly Lys Pro Thr
85 90 95

09730637-070901

Leu Gln Leu Lys Glu Lys Asn Ile Met Asp Leu Tyr Val Glu Lys Lys
100 105 110

Ala Gln Lys Pro Phe Leu Phe Phe His Asn Lys Glu Gly Ser Thr Ser
115 120 125

Val Phe Gln Ser Val Ser Tyr Pro Gly Trp Phe Ile Ala Thr Ser Thr
130 135 140

Thr Ser Gly Gln Pro Ile Phe Leu Thr Lys Glu Arg Gly Ile Thr Asn
145 150 155 160

Asn Thr Asn Phe Tyr Leu Asp Ser Val Glu
165 170

<210> 78

<211> 212

<212> PRT

<213> Homo sapiens

<400> 78

Asp Asn His Thr Met Arg Gly Thr Pro Gly Asp Ala Asp Gly Gly Gly
1 5 10 15

Arg Ala Val Tyr Gln Ser Ser Glu Ser Asn Ala Val Gly Met Gly Leu
20 25 30

Trp Arg Leu Arg Pro Ser Ala Leu Thr Leu Ser Pro Val Glu Ala Pro
35 40 45

Ala Phe Ser Ala Pro Leu Cys Thr Leu Pro Phe Pro Pro Val Cys Lys
50 55 60

Pro Ile Thr Gly Thr Ile Asn Asp Leu Asn Gln Gln Val Trp Thr Leu
65 70 75 80

Gln Gly Gln Asn Leu Val Ala Val Pro Arg Ser Asp Ser Val Thr Pro
85 90 95

Val Thr Val Ala Val Ile Thr Cys Lys Tyr Pro Glu Ala Leu Glu Gln
100 105 110

Gly Arg Gly Asp Pro Ile Tyr Leu Gly Ile Gln Asn Pro Glu Met Cys
115 120 125

Leu Tyr Cys Glu Lys Val Gly Glu Gln Pro Thr Leu Gln Leu Lys Glu
130 135 140

05730617-070901

Gln Lys Ile Met Asp Leu Tyr Gly Gln Pro Glu Pro Val Lys Pro Phe
145 150 155 160

Leu Phe Tyr Arg Ala Lys Thr Gly Arg Thr Ser Thr Leu Glu Ser Val
165 170 175

Ala Phe Pro Asp Trp Phe Ile Ala Ser Ser Lys Arg Asp Gln Pro Ile
180 185 190

Ile Leu Thr Ser Glu Leu Gly Lys Ser Tyr Asn Thr Ala Phe Glu Leu
195 200 205

Asn Ile Asn Asp
210

<210> 79

<211> 180

<212> PRT

<213> Homo sapiens

<400> 79

Met Ala Leu Ala Asp Leu Tyr Glu Glu Gly Gly Gly Gly Gly Glu
1 5 10 15

Gly Glu Asp Asn Ala Asp Ser Lys Glu Thr Ile Cys Arg Pro Ser Gly
20 25 30

Arg Lys Ser Ser Lys Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln
35 40 45

Lys Thr Phe Tyr Leu Arg Asn Asn Gln Leu Val Ala Gly Tyr Leu Gln
50 55 60

Gly Pro Asn Val Asn Leu Glu Glu Lys Ile Asp Val Val Pro Ile Glu
65 70 75 80

Pro His Ala Leu Phe Leu Gly Ile His Gly Gly Lys Met Cys Leu Ser
85 90 95

Cys Val Lys Ser Gly Asp Glu Thr Arg Leu Gln Leu Glu Ala Val Asn
100 105 110

Ile Thr Asp Leu Ser Glu Asn Arg Lys Gln Asp Lys Arg Phe Ala Phe
115 120 125

Ile Arg Ser Asp Ser Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys

007730617-070901

130

135

140

Pro Gly Trp Phe Leu Cys Thr Ala Met Glu Ala Asp Gln Pro Val Ser
145 150 155 160

Leu Thr Asn Met Pro Asp Glu Gly Val Met Val Thr Lys Phe Tyr Phe
165 170 175

Gln Glu Asp Glu
180

<210> 80

<211> 155

<212> PRT

<213> Homo sapiens

<400> 80

Met Val Leu Ser Gly Ala Leu Cys Phe Arg Met Lys Asp Ser Ala Leu
1 5 10 15

Lys Val Leu Tyr Leu His Asn Asn Gln Leu Leu Ala Gly Gly Leu His
20 25 30

Ala Gly Lys Val Ile Lys Gly Glu Glu Ile Ser Val Val Pro Asn Arg
35 40 45

Trp Leu Asp Ala Ser Leu Ser Pro Val Ile Leu Gly Val Gln Gly Gly
50 55 60

Ser Gln Cys Leu Ser Cys Gly Val Gly Gln Glu Pro Thr Leu Thr Leu
65 70 75 80

Glu Pro Val Asn Ile Met Glu Leu Tyr Leu Gly Ala Lys Glu Ser Lys
85 90 95

Ser Phe Thr Phe Tyr Arg Arg Asp Met Gly Leu Thr Ser Ser Phe Glu
100 105 110

Ser Ala Ala Tyr Pro Gly Trp Phe Leu Cys Thr Val Pro Glu Ala Asp
115 120 125

Gln Pro Val Arg Leu Thr Gln Leu Pro Glu Asn Gly Gly Trp Asn Ala
130 135 140

Pro Ile Thr Asp Phe Tyr Phe Gln Gln Cys Asp
145 150 155

05/2051-0702

<210> 81
 <211> 266
 <212> PRT
 <213> Homo sapiens

<400> 81

Met Ala Thr Val Pro Glu Pro Ile Asn Glu Val Met Ala Tyr Tyr Ser
 1 5 10 15

Asp Glu Asn Glu Leu Leu Phe Glu Val Asp Gly Pro Lys Gln Met Lys
 20 25 30

Ser Cys Thr Gln His Leu Asp Leu Gly Ser Met Gly Asp Gly Asn Ile
 35 40 45

Gln Leu Gln Ile Ser His Gln Leu Tyr Asn Lys Ser Phe Arg Gln Val
 50 55 60

Val Ser Val Ile Val Ala Met Glu Lys Leu Arg Ser Arg Ala Tyr Glu
 65 70 75 80

His Val Phe Arg Asp Asp Asp Leu Arg Ser Ile Leu Ser Phe Ile Phe
 85 90 95

Glu Glu Glu Pro Val Ile Phe Glu Thr Ser Ser Asp Glu Leu Leu Cys
 100 105 110

Asp Ala Ala Val Gln Ser Val Lys Cys Lys Leu Gln Asp Arg Glu Gln
 115 120 125

Lys Ser Leu Val Leu Asp Ser Pro Cys Val Leu Lys Ala Leu His Leu
 130 135 140

Leu Ser Gln Glu Met Ser Arg Glu Val Val Phe Cys Met Ser Phe Val
 145 150 155 160

Gln Gly Glu Glu Arg Asp Asn Lys Ile Pro Val Ala Leu Gly Ile Arg
 165 170 175

Asp Lys Asn Leu Tyr Leu Ser Cys Val Lys Lys Gly Asp Thr Pro Thr
 180 185 190

Leu Gln Leu Glu Glu Val Asp Pro Lys Val Tyr Pro Lys Arg Asn Met
 195 200 205

Glu Lys Arg Phe Val Phe Tyr Lys Thr Glu Ile Lys Asn Thr Val Glu
 210 215 220

09730617-076004

Phe Glu Ser Val Leu Tyr Pro Asn Trp Tyr Ile Ser Thr Ser Gln Ile
225 230 235 240

Glu Glu Lys Pro Val Phe Leu Gly Arg Phe Arg Gly Gly Gln Asp Ile
245 250 255

Thr Asp Phe Arg Met Glu Thr Leu Ser Pro
260 265

<210> 82
<211> 244
<212> DNA
<213> Homo sapiens

<400> 82
tctacctggg cctgaatgga ctcaatctct gcctgatgtg tgctaaagtc ggggaccagc 60
ccacactgca gctgaagctt caggaaaagg atataatgga ttgtacaac caacccgagc 120
ctgtgaagtc ctttctcttc taccacagcc agagtggcag gaactccacc ttcgagtctg 180
tggtcttccc tggtctggtc atcgtgtgca gctctgaagg aggctgtcct ctcctcctta 240
ccca 244

<210> 83
<211> 150
<212> DNA
<213> Homo sapiens

<400> 83
ttcctgggta tggaaacttg cctgtgtgta agtcgggaag actcagtgc cagaaataga 60
tgaaaaaccg agcgaagctt cttcccccaa gtggcaccca cttgagtcgg ctcctggctg 120
gttctctgcg cctaggagcc cttcctacca 150

<210> 84
<211> 238
<212> DNA
<213> Homo sapiens

<400> 84
tgttctctggg gatccatgga gggaagctgt gcctgtcctg tgtcaagtct ggtgatgaga 60
tgaagctcca gttggacgca gttaacatca cagacctgag aaagaacagc gagcaggaca 120
agcgcttcac cttcatccgc tccgacagtg gccccaccac cagctttgag tcagccgcct 180
gtcctggctg gttcctctgc actgcactag aggcagacca gcctgttggc ctcaccaa 238

<210> 85

0573061-076991

<211> 130

<212> PRT

<213> Homo sapiens

<400> 85

Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala

1

5

10

15

Val Pro Arg Lys Val Phe Pro Val Thr Ile Ala Leu Ile Ser Cys Arg

20

25

30

His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly

35

40

45

Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln

50

55

60

Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile Met Asp Leu Tyr

65

70

75

80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser

85

90

95

Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile

100

105

110

Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu

115

120

125

Gly Lys

130

<210> 86

<211> 126

<212> PRT

<213> Homo sapiens

<400> 86

Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala

1

5

10

15

Val Pro Arg Lys Pro Val Thr Ile Ala Leu Ile Ser Cys Arg His Val

20

25

30

Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly Leu Asn

35

40

45

Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln Pro Thr
50 55 60

Leu Gln Leu Lys Glu Lys Asp Ile Met Asp Leu Tyr Asn Gln Pro Glu
65 70 75 80

Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser Gly Arg Asn Ser
85 90 95

Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile Ala Val Ser Ser
100 105 110

Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu Gly Lys
115 120 125

<210> 87

<211> 130

<212> PRT

<213> Homo sapiens

<400> 87

Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala
1 5 10 15

Val Pro Arg Lys Asp Arg Met Ser Pro Val Thr Ile Ala Leu Ile Ser
20 25 30

Cys Arg His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr
35 40 45

Leu Gly Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly
50 55 60

Asp Gln Pro Thr Leu Gln Leu Lys Glu Lys Asp Ile Met Asp Leu Tyr
65 70 75 80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser
85 90 95

Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile
100 105 110

Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu
115 120 125

Gly Lys
130

09730617-070501

<210> 88
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 88
 Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala
 1 5 10 15

Val Pro Arg Lys Val Phe Pro Val Thr Ile Ala Leu Ile Ser Cys Arg
 20 25 30

His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly
 35 40 45

Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln
 50 55 60

Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile Met Asp Leu Tyr
 65 70 75 80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser
 85 90 95

Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile
 100 105 110

Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu
 115 120 125

Gly Lys
 130

<210> 89
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 89
 Asp Asn Val Trp Leu Gln Gln Leu Ala Val Pro Arg Val Pro Val Thr
 1 5 10 15

Ala Ile Cys Glu Leu Glu Arg Gly Pro Ile Tyr Leu Gly Cys Leu Cys
 20 25 30

09730617.070001

Lys Val Gly Gln Pro Thr Leu Gln Leu Lys Glu Ile Met Asp Leu Tyr
 35 40 45

Gln Pro Glu Pro Val Lys Phe Leu Phe Tyr Gly Arg Ser Thr Glu Ser
 50 55 60

Val Ala Phe Pro Trp Phe Ile Ala Ser Ser Pro Ile Leu Thr Glu Leu
 65 70 75 80

Gly Lys

<210> 90

<211> 129

<212> PRT

<213> Homo sapiens

<400> 90

Asp Leu Asn Gln Gln Val Trp Thr Leu Gln Gly Gln Asn Leu Val Ala
 1 5 10 15

Val Pro Arg Ser Asp Ser Val Thr Pro Val Thr Val Ala Val Ile Thr
 20 25 30

Cys Lys Tyr Pro Glu Ala Leu Glu Gln Gly Arg Gly Asp Pro Ile Tyr
 35 40 45

Leu Gly Ile Gln Asn Pro Glu Met Cys Leu Tyr Cys Glu Lys Val Gly
 50 55 60

Glu Gln Pro Thr Leu Gln Leu Lys Glu Gln Lys Ile Met Asp Leu Tyr
 65 70 75 80

Gly Gln Pro Glu Pro Val Lys Pro Phe Leu Phe Tyr Arg Ala Lys Thr
 85 90 95

Gly Arg Thr Ser Thr Leu Glu Ser Val Ala Phe Pro Asp Trp Phe Ile
 100 105 110

Ala Ser Ser Lys Arg Asp Gln Pro Ile Ile Leu Thr Ser Glu Leu Gly
 115 120 125

Lys

<210> 91

05730617-070901

<211> 81
 <212> PRT
 <213> Mus musculus

<400> 91
 Ile Tyr Leu Gly Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys
 1 5 10 15
 Val Gly Asp Gln Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile
 20 25 30
 Met Asp Leu Tyr Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr
 35 40 45
 His Ser Gln Ser Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro
 50 55 60
 Gly Trp Phe Ile Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu
 65 70 75 80

Thr

<210> 92
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: consensus
 sequence

<400> 92
 Leu Gly Gly Leu Cys Leu Cys Ala Lys Gly Asp Leu Leu Glu Ile Asp
 1 5 10 15
 Leu Glu Lys Phe Phe Ser Gly Phe Glu Ser Ala Pro Gly Trp Phe Glu
 20 25 30
 Pro Leu Thr
 35

<210> 93
 <211> 79
 <212> PRT
 <213> Homo sapiens

00730617-070501

<400> 93

Val Phe Leu Gly Ile His Gly Gly Lys Leu Cys Leu Ser Cys Ala Lys
1 5 10 15

Ser Gly Asp Asp Ile Lys Leu Gln Leu Glu Glu Val Asn Ile Thr Asp
20 25 30

Leu Ser Lys Asn Lys Glu Glu Asp Lys Arg Phe Thr Phe Ile Arg Ser
35 40 45

Glu Lys Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys Pro Gly Trp
50 55 60

Phe Leu Cys Thr Thr Leu Glu Ala Asp Arg Pro Val Ser Leu Thr
65 70 75

<210> 94

<211> 178

<212> PRT

<213> Mus musculus

<400> 94

Met Glu Ile Cys Trp Gly Pro Tyr Ser His Leu Ile Ser Leu Leu Leu
1 5 10 15

Ile Leu Leu Phe His Ser Glu Ala Ala Cys Arg Pro Ser Gly Lys Arg
20 25 30

Pro Cys Lys Met Gln Ala Phe Arg Ile Trp Asp Thr Asn Gln Lys Thr
35 40 45

Phe Tyr Leu Arg Asn Asn Gln Leu Ile Ala Gly Tyr Leu Gln Gly Pro
50 55 60

Asn Ile Lys Leu Glu Glu Lys Ile Asp Met Val Pro Ile Asp Leu His
65 70 75 80

Ser Val Phe Leu Gly Ile His Gly Gly Lys Leu Cys Leu Ser Cys Ala
85 90 95

Lys Ser Gly Asp Asp Ile Lys Leu Gln Leu Glu Glu Val Asn Ile Thr
100 105 110

Asp Leu Ser Lys Asn Lys Glu Glu Asp Lys Arg Phe Thr Phe Ile Arg
115 120 125

00730617.070901

Ser Glu Lys Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys Pro Gly
130 135 140

Trp Phe Leu Cys Thr Thr Leu Glu Ala Asp Arg Pro Val Ser Leu Thr
145 150 155 160

Asn Thr Pro Glu Glu Pro Leu Ile Val Thr Lys Phe Tyr Phe Gln Glu
165 170 175

Asp Gln

<210> 95

<211> 177

<212> PRT

<213> Equus caballus

<400> 95

Met Glu Ile Arg Arg Arg Ser Val Arg His Leu Ile Ser Leu Leu Leu
1 5 10 15

Phe Leu Phe Tyr Ser Glu Thr Ala Cys His Pro Leu Gly Lys Arg Pro
20 25 30

Cys Lys Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln Lys Thr Phe
35 40 45

Tyr Met Arg Asn Asn Gln Leu Val Ala Gly Tyr Leu Gln Glu Ser Asn
50 55 60

Thr Lys Leu Gln Glu Lys Ile Asp Val Val Pro Ile Glu Pro Asp Ala
65 70 75 80

Leu Phe Leu Gly Leu His Gly Arg Lys Leu Cys Leu Ala Cys Val Lys
85 90 95

Ser Gly Asp Glu Ile Arg Phe Gln Leu Glu Ala Val Asn Ile Thr Asp
100 105 110

Leu Ser Lys Asn Lys Glu Glu Asn Lys Arg Phe Thr Phe Ile Arg Ser
115 120 125

Asn Ser Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys Pro Gly Trp
130 135 140

Phe Leu Cys Thr Ala Gln Glu Ala Asp Arg Pro Val Ser Leu Thr Asn
145 150 155 160

09736617-076901

Lys Pro Lys Glu Ser Phe Met Val Thr Lys Phe Tyr Leu Gln Glu Asp
 165 170 175

Gln

<210> 96
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 96
 Met Val Leu Ser Gly Ala Leu Cys Phe Arg Met Lys Asp Ser Ala Leu
 1 5 10 15

Lys Val Leu Tyr Leu His Asn Asn Gln Leu Leu Ala Gly Gly Leu His
 20 25 30

Ala Gly Lys Val Ile Lys Gly Glu Glu Ile Ser Val Val Pro Asn Arg
 35 40 45

Trp Leu Asp Ala Ser Leu Ser Pro Val Ile Leu Gly Val Gln Gly Gly
 50 55 60

Ser Gln Cys Leu Ser Cys Gly Val Gly Gln Glu Pro Thr Leu Thr Leu
 65 70 75 80

Glu Pro Val Asn Ile Met Glu Leu Tyr Leu Gly Ala Lys Glu Ser Lys
 85 90 95

Ser Phe Thr Phe Tyr Arg Arg Asp Met Gly Leu Thr Ser Ser Phe Glu
 100 105 110

Ser Ala Ala Tyr Pro Gly Trp Phe Leu Cys Thr Val Pro Glu Ala Asp
 115 120 125

Gln Pro Val Arg Leu Thr Gln Leu Pro Glu Asn Gly Gly Trp Asn Ala
 130 135 140

Pro Ile Thr Asp Phe Tyr Phe Gln Gln Cys Asp
 145 150 155

<210> 97
 <211> 130
 <212> PRT

00730617-070901

<213> Homo sapiens

<400> 97

Asp Ile Asn His Arg Val Trp Val Leu Gln Asp Gln Thr Leu Ile Ala
1 5 10 15

Val Pro Arg Lys Val Phe Pro Val Thr Ile Ala Leu Ile Ser Cys Arg
20 25 30

His Val Glu Thr Leu Glu Lys Asp Arg Gly Asn Pro Ile Tyr Leu Gly
35 40 45

Leu Asn Gly Leu Asn Leu Cys Leu Met Cys Ala Lys Val Gly Asp Gln
50 55 60

Pro Thr Leu Gln Leu Lys Leu Gln Glu Lys Asp Ile Met Asp Leu Tyr
65 70 75 80

Asn Gln Pro Glu Pro Val Lys Ser Phe Leu Phe Tyr His Ser Gln Ser
85 90 95

Gly Arg Asn Ser Thr Phe Glu Ser Val Ala Phe Pro Gly Trp Phe Ile
100 105 110

Ala Val Ser Ser Glu Gly Gly Cys Pro Leu Ile Leu Thr Gln Glu Leu
115 120 125

Gly Lys
130

<210> 98

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: chemically
synthesized

<400> 98

tgaagcttca gctgcagtgt

20

<210> 99

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: chemically
synthesized

<400> 99

ccgacttttag cacacatcag gcagag

26

<210> 100

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: chemically
synthesized

<400> 100

gggcctgaat ggactcaat

19

09730617-070901